Amendment To The Claims:

Claims 1-7 Canceled

8. (Currently Amended) A method of manufacturing a circuit board comprising the steps of:

- (a) preparing a film-coated board material by bonding a film material to at least one of a surface of said board material and a back surface of said board;
- (b) forming at least one hole of a through-hole and a non-through-hole, in said film-coated board material,

wherein unnecessary material is produced when said hole is formed and said unnecessary material sticks to said board material, and

said unnecessary material has at least one selected from the group consisting of affected portion, affected material and foreign matter which are generated from said board material;

- (c) selectively removing said unnecessary material sticking to said film-coated board material without peeling said film material off said board material;
- (d) disposing a conductive material in said hole formed in said film-coated board material, using said film material as a mask; and
- (e) removing said film material from said film-coated board material after conductive material is disposed in said hole formed in said film-coated board material

wherein the process for forming said hole includes a process of forming said hole by applying a laser beam, and

the application of said laser beam causes generation of said unnecessary material.

The method of manufacturing a circuit board as defined in claim 2,

wherein the step of selectively removing said unnecessary material sticking to said film-coated board material from said film-coated board material includes

- (i) a process for selectively removing said unnecessary material from said film-coated board material by the vibrational energy generated by a supersonic oscillator while immersing said film-coated board material in a cleaning tank having a cleaning solution and said supersonic oscillator;
- (ii) a process for taking said film-coated board material out of said cleaning tank after removing said unnecessary material; and
- (iii) a process for removing at least one of remaining unnecessary material and cleaning solution sticking to said film-coated board material by blowing a gas to said film-coated board material taken out of said cleaning tank;

wherein a flow of said cleaning solution is created between said supersonic oscillator and said film-coated board material, and

said film-coated board material is subjected to supersonic cleaning while the flow is applied to said board material.

- 9. (Currently Amended) <u>A method of manufacturing a circuit board comprising the steps of:</u>
- (a) preparing a film-coated board material by bonding a film material to at least one of a surface of said board material and a back surface of said board;
- (b) forming at least one hole of a through-hole and a non-through-hole, in said film-coated board material,

wherein unnecessary material is produced when said hole is formed and said unnecessary material sticks to said board material, and

said unnecessary material has at least one selected from the group consisting of affected portion, affected material and foreign matter which are generated from said board material;

- (c) selectively removing said unnecessary material sticking to said film-coated board material without peeling said film material off said board material;
- (d) disposing a conductive material in said hole formed in said film-coated board material, using said film material as a mask; and
- (e) removing said film material from said film-coated board material after conductive material is disposed in said hole formed in said film-coated board material

wherein the process for forming said hole includes a process of forming said hole by applying a laser beam, and

the application of said laser beam causes generation of said unnecessary material,

The method of manufacturing a circuit board as defined in claim 2,

wherein the step of selectively removing said unnecessary material sticking to said filmcoated board material from said film-coated board material includes

a process for selectively removing said unnecessary material from said film-coated board material by the vibrational energy generated by a supersonic oscillator while immersing said film-coated board material in a cleaning tank having a cleaning solution and said supersonic oscillator, and

said film-coated board material is subjected to supersonic cleaning, in a state such that a plate is disposed between said supersonic oscillator and said film-coated board material, and

said plate serves to control the volume of supersonic energy that reaches said film-coated board material.

- 10. (Currently Amended) A method of manufacturing a circuit board comprising the steps of:
- (a) preparing a film-coated board material by bonding a film material to at least one of a surface of said board material and a back surface of said board;
- (b) forming at least one hole of a through-hole and a non-through-hole, in said film-coated board material,

wherein unnecessary material is produced when said hole is formed and said unnecessary material sticks to said board material, and

said unnecessary material has at least one selected from the group consisting of affected portion, affected material and foreign matter which are generated from said board material;

- (c) selectively removing said unnecessary material sticking to said film-coated board material without peeling said film material off said board material;
- (d) disposing a conductive material in said hole formed in said film-coated board material, using said film material as a mask; and
- (e) removing said film material from said film-coated board material after conductive material is disposed in said hole formed in said film-coated board material

wherein the process for forming said hole includes a process of forming said hole by applying a laser beam, and

the application of said laser beam causes generation of said unnecessary material,

The method of manufacturing a circuit board as defined in claim 2,

wherein the step of selectively removing said unnecessary material sticking to said filmcoated board material from said film-coated board material includes

- (i) a process for selectively removing said unnecessary material from said film-coated board material by the vibrational energy generated by a supersonic oscillator while immersing said film-coated board material in a cleaning tank having a cleaning solution and said supersonic oscillator;
- (ii) a process for taking said film-coated board material out of said cleaning tank after removing said unnecessary material; and
- (iii) a process for removing at least one of remaining unnecessary material and cleaning solution sticking to said film-coated board material by blowing a gas to said film-coated board material taken out of said cleaning tank;

wherein said film-coated board material is subjected to supersonic cleaning, in a state such that a plate is disposed between said supersonic oscillator and said film-coated board material, and

wherein said plate serves to control the volume of supersonic energy that reaches said film-coated board material.

- 11. (Currently Amended) A method of manufacturing a circuit board comprising the steps of:
- (a) preparing a film-coated board material by bonding a film material to at least one of a surface of said board material and a back surface of said board;
- (b) forming at least one hole of a through-hole and a non-through-hole, in said film-coated board material,

wherein unnecessary material is produced when said hole is formed and said unnecessary material sticks to said board material, and

said unnecessary material has at least one selected from the group consisting of affected portion, affected material and foreign matter which are generated from said board material;

- (c) selectively removing said unnecessary material sticking to said film-coated board material without peeling said film material off said board material;
- (d) disposing a conductive material in said hole formed in said film-coated board material, using said film material as a mask; and
- (e) removing said film material from said film-coated board material after conductive material is disposed in said hole formed in said film-coated board material

wherein the process for forming said hole includes a process of forming said hole by applying a laser beam, and

the application of said laser beam causes generation of said unnecessary material,

The method of manufacturing a circuit board as defined in claim 2,

wherein the step of selectively removing said unnecessary material sticking to said film-coated board material from said film-coated board material includes

a process for selectively removing said unnecessary material from said film-coated board material by the vibrational energy generated by a supersonic oscillator while immersing said film-coated board material in a cleaning tank having a cleaning solution and said supersonic oscillator, and

wherein said film-coated board material is subjected to supersonic cleaning in a state such that said film-coated board material is held on both sides by plates.

12. (Currently Amended) A method of manufacturing a circuit board comprising the steps of:

- (a) preparing a film-coated board material by bonding a film material to at least one of a surface of said board material and a back surface of said board;
- (b) forming at least one hole of a through-hole and a non-through-hole, in said film-coated board material,

wherein unnecessary material is produced when said hole is formed and said unnecessary material sticks to said board material, and

said unnecessary material has at least one selected from the group consisting of affected portion, affected material and foreign matter which are generated from said board material;

- (c) selectively removing said unnecessary material sticking to said film-coated board material without peeling said film material off said board material;
- (d) disposing a conductive material in said hole formed in said film-coated board material, using said film material as a mask; and
- (e) removing said film material from said film-coated board material after conductive material is disposed in said hole formed in said film-coated board material

wherein the process for forming said hole includes a process of forming said hole by applying a laser beam, and

the application of said laser beam causes generation of said unnecessary material.

The method of manufacturing a circuit board as defined in claim 2,

wherein the step of selectively removing said unnecessary material sticking to said film-coated board material from said film-coated board material includes a process for selectively removing said unnecessary material from said film-coated board material by the vibrational

energy generated by a supersonic oscillator while immersing said film-coated board material in a cleaning tank having a cleaning solution and said supersonic oscillator, and

wherein said film-coated board material is subjected to supersonic cleaning in a state such that a plate material is bonded to one side of said film-coated board material.

- 13. (Currently Amended) A method of manufacturing a circuit board comprising the steps of:
- (a) preparing a film-coated board material by bonding a film material to at least one of a surface of said board material and a back surface of said board;
- (b) forming at least one hole of a through-hole and a non-through-hole, in said film-coated board material,

wherein unnecessary material is produced when said hole is formed and said unnecessary material sticks to said board material, and

said unnecessary material has at least one selected from the group consisting of affected portion, affected material and foreign matter which are generated from said board material;

- (c) selectively removing said unnecessary material sticking to said film-coated board material without peeling said film material off said board material;
- (d) disposing a conductive material in said hole formed in said film-coated board material, using said film material as a mask; and
- (e) removing said film material from said film-coated board material after conductive material is disposed in said hole formed in said film-coated board material

wherein the process for forming said hole includes a process of forming said hole by applying a laser beam, and

the application of said laser beam causes generation of said unnecessary material,

The method of manufacturing a circuit board as defined in claim 2,

wherein the process for selectively removing said unnecessary material sticking to said film-coated board material from said film-coated board material includes

- (i) a process for selectively removing said unnecessary material from said film-coated board material by the vibrational energy generated by a supersonic oscillator while immersing said film-coated board material in a cleaning tank having a cleaning solution and said supersonic oscillator;
- (ii) a process for taking said film-coated board material out of said cleaning tank after removing said unnecessary material; and
- (iii) a process for removing at least one of remaining unnecessary material and cleaning solution sticking to said film-coated board material by blowing a gas to said film-coated board material taken out of said cleaning tank; and

wherein said film-coated board material is subjected to supersonic cleaning in at least one state of (a) such that said film-coated board material is held on both sides by plates and (b) such that a plate is bonded to one side of said film-coated board material.

- 14. (Currently amended) A method of manufacturing a circuit board comprising the steps of:
- (a) preparing a film-coated board material by bonding a film material to at least one of a surface of said board material and a back surface of said board;
- (b) forming at least one hole of a through-hole and a non-through-hole, in said filmcoated board material,

wherein unnecessary material is produced when said hole is formed and said unnecessary material sticks to said board material, and

said unnecessary material has at least one selected from the group consisting of affected portion, affected material and foreign matter which are generated from said board material;

- (c) selectively removing said unnecessary material sticking to said film-coated board material without peeling said film material off said board material;
- (d) disposing a conductive material in said hole formed in said film-coated board material, using said film material as a mask; and
- (e) removing said film material from said film-coated board material after conductive material is disposed in said hole formed in said film-coated board material

wherein the process for forming said hole includes a process of forming said hole by applying a laser beam, and

the application of said laser beam causes generation of said unnecessary material
wherein the step of selectively removing said unnecessary material sticking to said filmcoated board material from said film-coated board material includes

a process for selectively removing said unnecessary material from said film-coated board material by the vibrational energy generated by said a supersonic oscillator while immersing said film-coated board material in a cleaning tank having a cleaning solution and said supersonic oscillator, and

a flow of said cleaning solution is created between said supersonic oscillator and said film-coated board material, and said film-coated board material is subjected to supersonic cleaning while the flow of said cleaning solution is applied to said board material,

The method of manufacturing a circuit board as defined in claim 7,

wherein the flow of said cleaning solution is generated by a discharge device having a discharge port and pump.

- 15. (Currently amended) A method of manufacturing a circuit board comprising the steps of:
- (a) preparing a film-coated board material by bonding a film material to at least one of a surface of said board material and a back surface of said board;
- (b) forming at least one hole of a through-hole and a non-through-hole, in said film-coated board material,

wherein unnecessary material is produced when said hole is formed and said unnecessary material sticks to said board material, and

said unnecessary material has at least one selected from the group consisting of affected portion, affected material and foreign matter which are generated from said board material;

- (c) selectively removing said unnecessary material sticking to said film-coated board material without peeling said film material off said board material;
- (d) disposing a conductive material in said hole formed in said film-coated board material, using said film material as a mask; and
- (e) removing said film material from said film-coated board material after conductive material is disposed in said hole formed in said film-coated board material

wherein the process for forming said hole includes a process of forming said hole by applying a laser beam, and

the application of said laser beam causes generation of said unnecessary material

wherein the step of selectively removing said unnecessary material sticking to said film-coated board material from said film-coated board material includes

a process for selectively removing said unnecessary material from said film-coated board material by the vibrational energy generated by said a supersonic oscillator while immersing said film-coated board material in a cleaning tank having a cleaning solution and said supersonic oscillator, and

a flow of said cleaning solution is created between said supersonic oscillator and said film-coated board material, and said film-coated board material is subjected to supersonic cleaning while the flow of said cleaning solution is applied to said board material,

The method of manufacturing a circuit board as defined in claim 7,

wherein the flow of said cleaning solution is circulated by the cleaning solution discharged from a slit type discharge port.

- 16. (Currently amended) A method of manufacturing a circuit board comprising the steps of:
- (a) preparing a film-coated board material by bonding a film material to at least one of a surface of said board material and a back surface of said board;
- (b) forming at least one hole of a through-hole and a non-through-hole, in said film-coated board material,

wherein unnecessary material is produced when said hole is formed and said unnecessary material sticks to said board material, and

said unnecessary material has at least one selected from the group consisting of affected portion, affected material and foreign matter which are generated from said board material;

(c) selectively removing said unnecessary material sticking to said film-coated board material without peeling said film material off said board material;

- (d) disposing a conductive material in said hole formed in said film-coated board material, using said film material as a mask; and
- (e) removing said film material from said film-coated board material after conductive material is disposed in said hole formed in said film-coated board material

wherein the process for forming said hole includes a process of forming said hole by applying a laser beam, and

the application of said laser beam causes generation of said unnecessary material

wherein the step of selectively removing said unnecessary material sticking to said filmcoated board material from said film-coated board material includes

a process for selectively removing said unnecessary material from said film-coated board material by the vibrational energy generated by said a supersonic oscillator while immersing said film-coated board material in a cleaning tank having a cleaning solution and said supersonic oscillator, and

a flow of said cleaning solution is created between said supersonic oscillator and said film-coated board material, and said film-coated board material is subjected to supersonic cleaning while the flow of said cleaning solution is applied to said board material.

The method of manufacturing a circuit board as defined in claim 7,

wherein the flow of said cleaning solution is circulated by the cleaning solution discharged from a shower type discharge port.

17. (Currently amended) A method of manufacturing a circuit board comprising the steps of:

- (a) preparing a film-coated board material by bonding a film material to at least one of a surface of said board material and a back surface of said board;
- (b) forming at least one hole of a through-hole and a non-through-hole, in said film-coated board material,

wherein unnecessary material is produced when said hole is formed and said unnecessary material sticks to said board material, and

said unnecessary material has at least one selected from the group consisting of affected portion, affected material and foreign matter which are generated from said board material;

- (c) selectively removing said unnecessary material sticking to said film-coated board material without peeling said film material off said board material;
- (d) disposing a conductive material in said hole formed in said film-coated board material, using said film material as a mask; and
- (e) removing said film material from said film-coated board material after conductive material is disposed in said hole formed in said film-coated board material

wherein the process for forming said hole includes a process of forming said hole by applying a laser beam, and

the application of said laser beam causes generation of said unnecessary material
wherein the step of selectively removing said unnecessary material sticking to said filmcoated board material from said film-coated board material includes

a process for selectively removing said unnecessary material from said film-coated board material by the vibrational energy generated by said a supersonic oscillator while immersing said

film-coated board material in a cleaning tank having a cleaning solution and said supersonic oscillator, and

a flow of said cleaning solution is created between said supersonic oscillator and said film-coated board material, and said film-coated board material is subjected to supersonic cleaning while the flow of said cleaning solution is applied to said board material,

The method of manufacturing a circuit board as defined in claim 7,

wherein the flow of said cleaning solution is circulated by the cleaning solution discharged from a plurality of discharge ports.

- 18. (Original) The method of manufacturing a circuit board as defined in claim 9, wherein said plate has a flat plate.
- 19. (Original) The method of manufacturing a circuit board as defined in claim 9, wherein said plate has a corrugated plate.
- 20. (Previously presented) The method of manufacturing a circuit board as defined in claim 9,

wherein said plate has at least one of a flat plate and a corrugated plate, and said plate has at least a hole whose diameter is less in wavelength than 1/4 of a standing wave of sound generated by said supersonic oscillator in said cleaning solution.

21. (Original) The method of manufacturing a circuit board as defined in claim 9, wherein said plate includes metal.

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- 22. (Original) The method of manufacturing a circuit board as defined in claim 9, wherein said plate includes a plurality of metal thin plates.
- 23. (Original) The method of manufacturing a circuit board as defined in claim 13, wherein said plate internally has at least one of an air layer and bubbles.
- 24. (Original) The method of manufacturing a circuit board as defined in claim 13,

wherein the step of selectively removing said unnecessary material sticking to said film-coated board material from said film-coated board material further includes a process of moistening said film-coated board material with said cleaning solution before said film-coated board material is held on both sides by said plates.

- 25. (Currently amended) The method of manufacturing a circuit board as defined in claim [[6]] 10, wherein said supersonic oscillator generates a sound pressure of $9.55 \times 10^{10} \, \mu Pa$ or over.
- 26. (Currently amended) A method of manufacturing a circuit board comprising the steps of:
- (a) preparing a film-coated board material by bonding a film material to at least one of a surface of said board material and a back surface of said board;

(b) forming at least one hole of a through-hole and a non-through-hole, in said film-coated board material,

wherein unnecessary material is produced when said hole is formed and said unnecessary material sticks to said board material, and

said unnecessary material has at least one selected from the group consisting of affected portion, affected material and foreign matter which are generated from said board material;

- (c) selectively removing said unnecessary material sticking to said film-coated board material without peeling said film material off said board material;
- (d) disposing a conductive material in said hole formed in said film-coated board material, using said film material as a mask; and
- (e) removing said film material from said film-coated board material after conductive material is disposed in said hole formed in said film-coated board material

wherein the process for forming said hole includes a process of forming said hole by applying a laser beam, and

the application of said laser beam causes generation of said unnecessary material

wherein the step of selectively removing said unnecessary material sticking to said filmcoated board material from said film-coated board material includes

a process for selectively removing said unnecessary material from said film-coated board material by the vibrational energy generated by said a supersonic oscillator while immersing said film-coated board material in a cleaning tank having a cleaning solution and said supersonic oscillator,

The method of manufacturing a circuit board as defined in claim 6,

wherein at the process for selectively removing said unnecessary material sticking to said film-coated board material from said film-coated board material, said film-coated board material is subjected to supersonic cleaning in a state such that a plate is disposed between said film-coated board material and said supersonic oscillator, and

the sound pressure that reaches said film-coated board material due to said plate material ranges from $4.78 \times 10^{10} \, \mu Pa$ to $9.55 \times 10^{10} \, \mu Pa$.

- 27. (Currently amended) A method of manufacturing a circuit board comprising the steps of:
- (a) preparing a film-coated board material by bonding a film material to at least one of a surface of said board material and a back surface of said board;
- (b) forming at least one hole of a through-hole and a non-through-hole, in said filmcoated board material,

wherein unnecessary material is produced when said hole is formed and said unnecessary material sticks to said board material, and

said unnecessary material has at least one selected from the group consisting of affected portion, affected material and foreign matter which are generated from said board material;

- (c) selectively removing said unnecessary material sticking to said film-coated board material without peeling said film material off said board material;
- (d) disposing a conductive material in said hole formed in said film-coated board material, using said film material as a mask; and
- (e) removing said film material from said film-coated board material after conductive material is disposed in said hole formed in said film-coated board material

wherein the process for forming said hole includes a process of forming said hole by applying a laser beam, and

the application of said laser beam causes generation of said unnecessary material.

The method of manufacturing a circuit board as defined in claim 2,

wherein the step of selectively removing said unnecessary material sticking to said film-coated board material from said film-coated board material without peeling said film material from said board material includes

- (i) a process for selectively removing said unnecessary material from said film-coated board material while immersing said film-coated board material in a cleaning tank having a cleaning solution;
- (ii) a process for taking said film-coated board material out of said cleaning tank after removing said unnecessary material; and
- (iii) a process for removing at least one of remaining unnecessary material and cleaning solution sticking to said film-coated board material taken out of said cleaning tank;

wherein said film-coated board material is heated in at least one of the above process (i) and process (iii).

28. (Original) The method of manufacturing a circuit board as defined in claim 27,

wherein the step of removing at least one of remaining unnecessary material and cleaning solution sticking to said film-coated board material taken out of said cleaning tank includes at least one of (a) a blowing process using a blow gas and (b) a mechanical cleaning process using a

rotary brush in order to remove said unnecessary material and cleaning solution remaining on said film-coated board material.

- 29. (Currently amended) A method of manufacturing a circuit board comprising the steps of:
- (a) preparing a film-coated board material by bonding a film material to at least one of a surface of said board material and a back surface of said board;
- (b) forming at least one hole of a through-hole and a non-through-hole, in said film-coated board material,

wherein unnecessary material is produced when said hole is formed and said unnecessary material sticks to said board material, and

said unnecessary material has at least one selected from the group consisting of affected portion, affected material and foreign matter which are generated from said board material;

- (c) selectively removing said unnecessary material sticking to said film-coated board material without peeling said film material off said board material;
- (d) disposing a conductive material in said hole formed in said film-coated board material, using said film material as a mask; and
- (e) removing said film material from said film-coated board material after conductive material is disposed in said hole formed in said film-coated board material

wherein the process for forming said hole includes a process of forming said hole by applying a laser beam, and

the application of said laser beam causes generation of said unnecessary material,

The method of manufacturing a circuit board as defined in claim 2, further comprising a step of:

preheating said film-coated board material prior to the step of selectively removing said unnecessary material sticking to said film-coated board material from said film-coated board material without peeling said film material from said board material.

- 30. (Currently amended) A method of manufacturing a circuit board comprising the steps of:
- (a) preparing a film-coated board material by bonding a film material to at least one of a surface of said board material and a back surface of said board;
- (b) forming at least one hole of a through-hole and a non-through-hole, in said film-coated board material,

wherein unnecessary material is produced when said hole is formed and said unnecessary material sticks to said board material, and

said unnecessary material has at least one selected from the group consisting of affected portion, affected material and foreign matter which are generated from said board material;

- (c) selectively removing said unnecessary material sticking to said film-coated board material without peeling said film material off said board material;
- (d) disposing a conductive material in said hole formed in said film-coated board material, using said film material as a mask; and
- (e) removing said film material from said film-coated board material after conductive material is disposed in said hole formed in said film-coated board material

wherein the process for forming said hole includes a process of forming said hole by applying a laser beam, and

the application of said laser beam causes generation of said unnecessary material
wherein the step of selectively removing said unnecessary material sticking to said filmcoated board material from said film-coated board material includes

a process for selectively removing said unnecessary material from said film-coated board material by the vibrational energy generated by said a supersonic oscillator while immersing said film-coated board material in a cleaning tank having a cleaning solution and said supersonic oscillator,

The method of manufacturing a circuit board as defined in claim 6, further comprising a step of:

preheating said film-coated board material prior to the step of selectively removing said unnecessary material sticking to said film-coated board material from said film-coated board material without peeling said film material from said board material.

31. (Original) The method of manufacturing a circuit board as defined in claim 27,

wherein the step of selectively removing said unnecessary material sticking to said film-coated board material from said film-coated board material without peeling said film material from said board material further includes a process of preheating said film-coated board material prior to at least one selected from the group consisting of said cleaning process, said blowing process and said mechanical cleaning process.

32. (Currently Amended) A method of manufacturing a circuit board comprising the steps of:

- (a) preparing a film-coated board material by bonding a film material to at least one of a surface of said board material and a back surface of said board;
- (b) forming at least one hole of a through-hole and a non-through-hole, in said film-coated board material,

wherein unnecessary material is produced when said hole is formed and said unnecessary material sticks to said board material, and

said unnecessary material has at least one selected from the group consisting of affected portion, affected material and foreign matter which are generated from said board material;

- (c) selectively removing said unnecessary material sticking to said film-coated board material without peeling said film material off said board material;
- (d) disposing a conductive material in said hole formed in said film-coated board material, using said film material as a mask; and
- (e) removing said film material from said film-coated board material after conductive material is disposed in said hole formed in said film-coated board material

wherein the process for forming said hole includes a process of forming said hole by applying a laser beam, and

the application of said laser beam causes generation of said unnecessary material,

The method of manufacturing a circuit board as defined in claim 2,

wherein a cleaning solution is heated up to a temperature higher than the normal temperature.

33. (Currently amended) A method of manufacturing a circuit board comprising the steps of:

- (a) preparing a film-coated board material by bonding a film material to at least one of a surface of said board material and a back surface of said board;
- (b) forming at least one hole of a through-hole and a non-through-hole, in said filmcoated board material,

wherein unnecessary material is produced when said hole is formed and said unnecessary material sticks to said board material, and

said unnecessary material has at least one selected from the group consisting of affected portion, affected material and foreign matter which are generated from said board material;

- (c) selectively removing said unnecessary material sticking to said film-coated board material without peeling said film material off said board material;
- (d) disposing a conductive material in said hole formed in said film-coated board material, using said film material as a mask; and
- (e) removing said film material from said film-coated board material after conductive material is disposed in said hole formed in said film-coated board material

wherein the process for forming said hole includes a process of forming said hole by applying a laser beam, and

the application of said laser beam causes generation of said unnecessary material
wherein the step of selectively removing said unnecessary material sticking to said filmcoated board material from said film-coated board material includes

a process for selectively removing said unnecessary material from said film-coated board material by the vibrational energy generated by said a supersonic oscillator while immersing said

film-coated board material in a cleaning tank having a cleaning solution and said supersonic oscillator,

The method of manufacturing a circuit board as defined in claim 6, wherein said cleaning solution is heated up to a temperature higher than the normal temperature.

- 34. (Original) The method of manufacturing a circuit board as defined in claim 27, wherein said cleaning solution is heated up to a temperature higher than the normal temperature.
- 35. (Original) The method of manufacturing a circuit board as defined in claim 8, wherein said gas is heated.
- 36. (Original) The method of manufacturing a circuit board as defined in claim 10, wherein said gas is heated.
- 37. (Original) The method of manufacturing a circuit board as defined in claim 13, wherein said gas is heated.
- 38. (Original) The method of manufacturing a circuit board as defined in claim 27,

wherein the heating temperature of said film-coated board material ranges from the temperature at which said film material is not peeled off said film-coated board material due to

stresses to the temperature of heat resistance and the temperature of desired physical property change of said board material and said film material.

Claims 39-42 Canceled

43. (Original) The method of manufacturing a circuit board as defined in claim 27, wherein said cleaning solution includes organic solvents.

Claims 44-49 Canceled

Claims 50-66 Canceled

- 67. Canceled
- 68. (New) The method of manufacturing a circuit board as defined in claim 13, wherein said supersonic oscillator generates a sound pressure of $9.55 \times 10^{10} \, \mu Pa$ or over.